

**VINAYAKA MISSION'S RESEARCH FOUNDATIONS, SALEM
(Deemed to be University)**

B.SC. (PERFUSION TECHNOLOGY) DEGREE EXAMINATION

February 2020

Third Year

PERFUSION TECHNOLOGY - APPLIED

Time: Three hours

Maximum: 75 marks

I. Write an essay on any ONE of the following: (1 x 20 = 20)

1. Management of Thrombo- Embolic event during CPB.
2. Intra – aortic balloon counter pulsation.

II. Write short notes on any TWO of the following: (2 x 10 = 20)

3. Write notes on platelets.
4. How are the blood cells injured during CPB?
5. HIT and the alternate anticoagulation to Heparin.
6. The pulmonary response to CPB – (inflammatory).

III. Write short answers on any SEVEN of the following: (7 x 5 = 35)

7. The gas used in the IABP. Why?
8. Haemofiltration during CPB.
9. Coagulopathies caused by CPB.
10. The filters used in CPB.
11. Platelet aggregation and adhesion.
12. Protamine and its reaction.
13. What is CUF and how it is done?
14. Cell salvaging technique.
15. Complement activation.
16. VAD – What is it?
